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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/994,280	11/26/2001	George M. Dougherty	07043-103001 /B01-106	8826	
26181	7590 02/04/2003	•			
FISH & RICHARDSON P.C.			EXAMINER		
500 ARGUELLO STREET, SUITE 500 REDWOOD CITY, CA 94063			ROCCHEGIA	ROCCHEGIANI, RENZO	
			ART UNIT	PAPER NUMBER	
			2825		
			DATE MAILED: 02/04/2003	DATE MAILED: 02/04/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

at						
•	09/994,280	DOUGHERTY, GEORGE 1/1.				
· Office Action Summary	Examiner	Art Unit				
	Renzo N. Rocchegiani	2825				
The MAILING DATE of this communication appeared for Reply .	ears on the cov r sheet with	the correspondence addres 3				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period with Failure to reply within the set or extended period for reply will, by statute, and Any reply received by the Office later than three months after the mailing of earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply within the statutory minimum of thirty (3 II apply and will expire SIX (6) MONTHS cause the application to become ABANI	be timely filed  (0) days will be considered timely.  S from the mailing date of this communication.  DONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 26 No	<u>ovember 2001</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-26 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accept						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.						
	drimier.					
Priority under 35 U.S.C. §§ 119 and 120	priority under 35 U.S.C. & 1	19(a) <sub>-</sub> (d) or (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
' '	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>					
<ul><li>2. Certified copies of the priority documents</li><li>3. Copies of the certified copies of the priori</li></ul>						
application from the International Bure  * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 1	119(e) (to a provisional application).				
a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic						
Attachment(s)	, , , ,	<del>-</del> ,				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4,</li> </ol>	5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)				

'Application/Control Number: 09/994,280

Art Unit: 2825

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-26 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,919,364 (Lebouitz et al.).

Lebouitz et al. discloses a filter structure comprising a polysilicon film with pores (col. 4, lines 35-50). The film is has a thickness that falls between 50 and 300 nm (col. 5, lines 33-40). The lateral dimensions of the pores may be 10 and 50 nm (col. 3, lines 15-17). Lebouitz et al. also discloses forming a structure layer underneath the filter structure. (col. 5, lines 64-67). Lebouitz et al. further discloses forming a sacrificial layer underneath the structure layer. (col. 4, lines 64-67, and col. 5, lines 1-3). The sacrificial layer is removed after the filter structure is formed. (col. 5, lines 45-53). A passageway through the substrate is formed. (col. 6, lines 50-55). The filter layer is formed over a low stress structure. (col. 9, lines 20-23).

It is Inherent that the filter layer has grain structures because the filter layer is polycrystalline silicon. Also, since the thickness and size of the pores disclosed in Lebouitz et al. match the sizes claimed, it is inherent that the other properties such as relationship of size of grain to thickness of layer will are also present.

Art Unit: 2825

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renzo Rocchegiani whose telephone number is (703) 308-5839. The examiner can normally be reached on Monday through Friday from 8:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached at (703) 308-1323. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9318.

RNR

January 24, 2003

MATTHEW SMITH
SUPERVISORY PATENT EXAMINE

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Page 3